HF INVERTER®
drive solutions

ALU-G MOTION
IRON-G MOTION

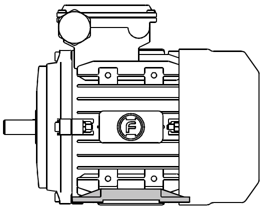
Silniki indukcyjne **HMM**

*Induction motors **HMM***

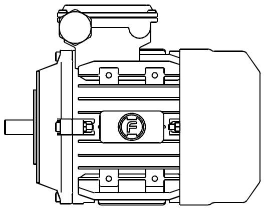
ver. 02/2022

Oznaczenie kodowe / *Classification*

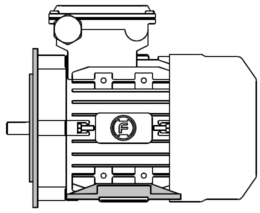
HMM...P□B3



HMM...P□B5
HMM...P□B14



HMM...P□B35
HMM...P□B34



Silnik indukcyjny / *Induction motors*

HMM	2	A1	025	P2	S1	P63B14
Typ / *Type*	Klasa sprawności *Efficiency class*	Typ obudowy *Housing type*	Moc nominalna *Rated output*	Prędkość *Speed*	Tryb pracy *Operating duty*	Obudowa IEC *Housing IEC*
HMM	**1** - IE1 **2** - IE2 **3** - IE3 **4** - IE4	**A1** - ALU RAL9006 **A2** - ALU RAL5010 **A3** - ALU RAL7031 **Y1** - IRON RAL9006 **Y2** - IRON RAL5010 **Y3** - IRON RAL7031	Zgodnie z doborem *See tables*		**S1** - Praca ciągła *Continuous work* **S3** - Praca przerywana *Intermittent work*	Zgodnie z doborem *See tables*

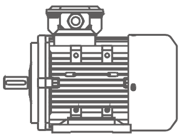
Tabela — Moc nominalna / *Rated output* — *Table*

009 - 0.09 kW / **012** - 0.12 kW / **018** - 0.18 kW / **025** - 0.25 kW / **037** - 0.37 kW / **055** - 0.55 kW / **075** - 0.75 kW
110 - 1.10 kW / **150** - 1.50 kW / **220** - 2.20 kW / **300** - 3.00 kW / **400** - 4.00 kW / **550** - 5.50 kW / **750** - 7.50 kW
111 - 11.0 kW / **151** - 15.0 kW / **185** - 18.5 kW / **221** - 22.0 kW / **301** - 30.0 kW / **371** - 37.0 kW / **451** - 45.0 kW
551 - 55.0 kW / **751** - 75.0 kW / **901** - 90.0 kW / **112** - 110. kW / **132** - 132. kW / **162** - 160. kW / **202** - 200. kW
252 - 250. kW / **315** - 315. kW

Tabela — Prędkość obrotowa / *Synchronous speed* — *Table*

P2 - 2800 rpm / **P4** - 1400 rpm / **P6** - 900 rpm

Pozycje montażowe / *Mounting positions*



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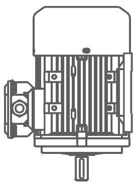
IM 1001



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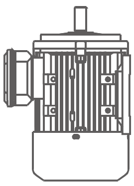

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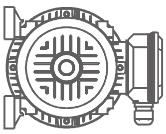

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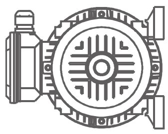

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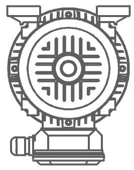

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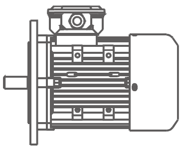

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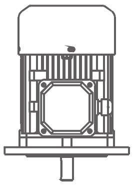

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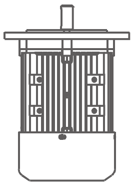

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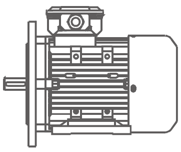

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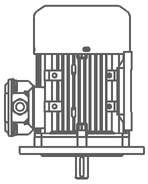

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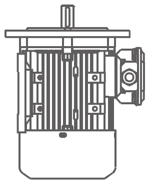

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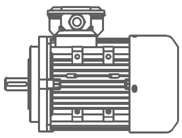

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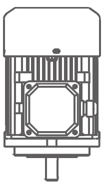

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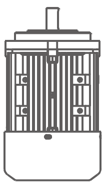

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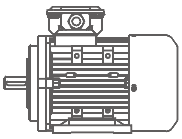

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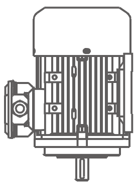

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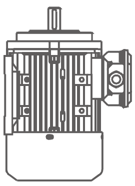
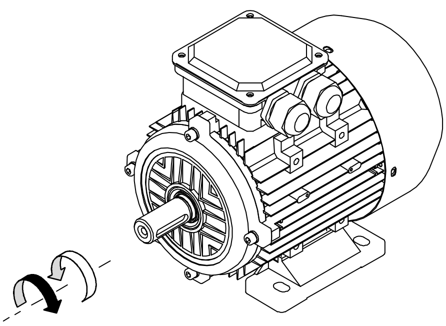


IM V36
IM 2131

Sprawność silników

Efficiency motors

Moc *Power* [kW]	2800 rpm			1400 rpm			900 rpm		
	HMM 1	HMM 2	HMM 3	HMM 1	HMM 2	HMM 3	HMM 1	HMM 2	HMM 3
	IE 1	IE 2	IE 3	IE 1	IE 2	IE 3	IE 1	IE 2	IE 3
0.09	50.0 %	61.4 %	66.1 %	50.0 %	67.9 %	71.8 %	---	---	---
0.12	53.6 %	64.0 %	68.5 %	53.6 %	69.7 %	73.5 %	---	---	---
0.18	58.3 %	67.4 %	71.6 %	58.3 %	72.1 %	75.7 %	57.3 %	66.3 %	70.0 %
0.25	61.9 %	69.9 %	74.0 %	61.9 %	74.0 %	77.4 %	60.5 %	68.7 %	72.3 %
0.37	65.8 %	72.8 %	76.6 %	65.8 %	76.1 %	79.3 %	64.1 %	71.4 %	74.8 %
0.55	69.4 %	75.5 %	79.0 %	69.4 %	78.1 %	81.2 %	67.5 %	74.0 %	77.2 %
0.75	72.1 %	77.4 %	80.7 %	72.1 %	79.6 %	82.5 %	70.0 %	75.9 %	78.9 %
1.10	75.0 %	79.6 %	82.7 %	75.0 %	81.4 %	84.1 %	72.9 %	78.1 %	81.0 %
1.50	77.2 %	81.3 %	84.2 %	77.2 %	82.8 %	85.3 %	75.2 %	79.8 %	82.5 %
2.20	79.7 %	83.2 %	85.9 %	79.7 %	84.3 %	86.7 %	77.7 %	81.8 %	84.3 %
3.00	81.5 %	84.6 %	87.1 %	81.5 %	85.5 %	87.7 %	79.7 %	83.3 %	85.6 %
4.00	83.1 %	85.8 %	88.1 %	83.1 %	86.6 %	88.6 %	81.4 %	84.6 %	86.8 %
5.50	84.7 %	87.0 %	89.2 %	84.7 %	87.7 %	89.6 %	83.1 %	86.0 %	88.0 %
7.50	86.0 %	88.1 %	90.1 %	86.0 %	88.7 %	90.4 %	84.7 %	87.2 %	89.1 %
11.0	87.6 %	89.4 %	91.2 %	87.6 %	89.8 %	91.4 %	86.4 %	88.6 %	90.3 %
15.0	88.7 %	90.3 %	91.9 %	88.7 %	90.6 %	92.1 %	87.7 %	89.7 %	91.2 %
18.5	89.3 %	90.9 %	92.4 %	89.3 %	91.2 %	92.6 %	88.6 %	90.3 %	91.7 %
22.0	89.9 %	91.3 %	92.7 %	89.9 %	91.6 %	93.0 %	89.2 %	90.8 %	92.2 %
30.0	90.7 %	92.0 %	93.3 %	90.7 %	92.3 %	93.6 %	90.2 %	91.7 %	92.9 %
37.0	91.2 %	92.5 %	93.7 %	91.2 %	92.7 %	93.9 %	90.8 %	92.2 %	93.3 %
45.0	91.7 %	92.9 %	94.0 %	91.7 %	93.1 %	94.2 %	91.4 %	92.6 %	93.7 %
55.0	92.1 %	93.2 %	94.3 %	92.1 %	93.5 %	94.6 %	91.9 %	93.1 %	94.1 %
75.0	92.7 %	93.8 %	94.7 %	92.7 %	94.0 %	95.0 %	92.6 %	93.6 %	94.6 %
90.0	93.0 %	94.1 %	95.0 %	93.0 %	94.2 %	95.2 %	92.9 %	93.9 %	94.9 %
110	93.3 %	94.3 %	95.2 %	93.3 %	94.5 %	95.4 %	93.3 %	94.2 %	95.1 %
132	93.5 %	94.6 %	95.4 %	93.5 %	94.7 %	95.6 %	93.5 %	94.4 %	95.4 %
160	93.8 %	94.8 %	95.6 %	93.8 %	94.9 %	95.8 %	93.8 %	94.6 %	95.6 %
200	94.0 %	95.0 %	95.8 %	94.0 %	95.1 %	96.0 %	94.0 %	94.8 %	95.8 %
250	94.3 %	95.3 %	96.0 %	94.3 %	95.3 %	96.2 %	94.2 %	95.0 %	95.9 %
315	94.5 %	95.5 %	96.2 %	94.5 %	95.5 %	96.3 %	94.3 %	95.1 %	96.1 %



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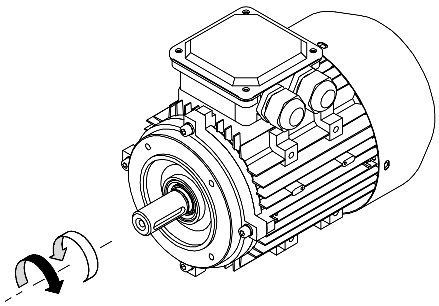

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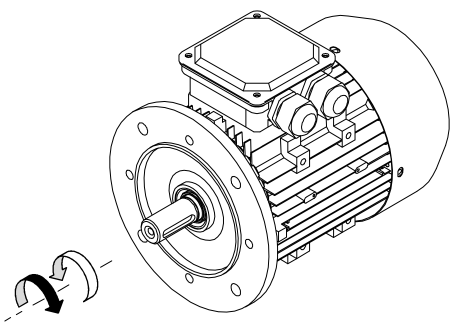
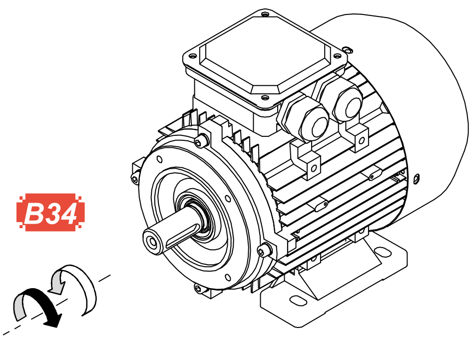


B5

B34



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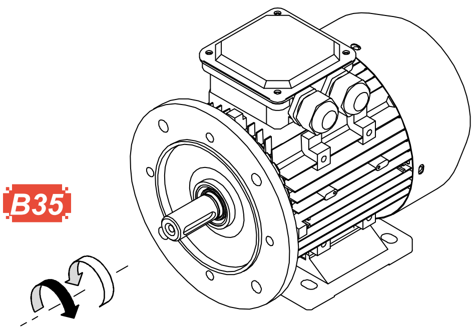


Dane techniczne

Technical data

2-pole, 2800 rpm, 50Hz, class F, IP55, S1 — **IE 1**

Moc *Power* [kW]	Prędkość *Speed* [rpm]	Moment *Torque* [Nm]	Klasa sprawności *Efficiency class*		Wsp. mocy *Power factor* [cos ϕ]	Prąd znamionowy [A] *Rated current [A]* 380 V	400 V	415 V	Obudowa *Frame*	Oznaczenie kodowe *Order classification*	Masa *Weight* [kg]
0.09	**2750**	0.31	50.0 %	IE 1	0.70	0.39	0.37	0.40	P56□	**HMM1A□009P2S1□**	3.60
0.12	**2750**	0.42	53.6 %	IE 1	0.72	0.47	0.45	0.40	P56□	**HMM1A□012P2S1□**	3.90
0.18	**2730**	0.63	58.3 %	IE 1	0.80	0.59	0.56	0.50	P63□	**HMM1A□018P2S1□**	4.80
0.25	**2800**	0.85	61.9 %	IE 1	0.81	0.76	0.72	0.70	P63□	**HMM1A□025P2S1□**	5.10
0.37	**2756**	1.28	65.8 %	IE 1	0.81	1.05	1.00	1.00	P71□	**HMM1A□037P2S1□**	6.00
0.55	**2792**	1.88	69.4 %	IE 1	0.82	1.47	1.40	1.30	P71□	**HMM1A□055P2S1□**	6.50

2-pole, 2800 rpm, 50Hz, class F, IP55, S1 — **IE 2**

Moc *Power* [kW]	Prędkość *Speed* [rpm]	Moment *Torque* [Nm]	Klasa sprawności *Efficiency class*		Wsp. mocy *Power factor* [cos ϕ]	Prąd znamionowy [A] *Rated current [A]* 380 V	400 V	415 V	Obudowa *Frame*	Oznaczenie kodowe *Order classification*	Masa *Weight* [kg]
0.75	**2875**	2.49	77.4 %	IE 2	0.83	1.80	1.70	1.60	P80□	**HMM2A□075P2S1□**	10.5
1.10	**2888**	3.64	79.6 %	IE 2	0.84	2.50	2.40	2.30	P80□	**HMM2A□110P2S1□**	11.2
1.50	**2887**	4.96	81.3 %	IE 2	0.84	3.30	3.20	3.10	P90S□	**HMM2A□150P2S1□**	14.5
2.20	**2889**	7.28	83.2 %	IE 2	0.85	4.70	4.50	4.30	P90L□	**HMM2A□220P2S1□**	16.8
3.00	**2890**	9.92	84.6 %	IE 2	0.87	6.20	5.90	5.70	P100L□	**HMM2A□300P2S1□**	21.5
4.00	**2901**	13.2	85.8 %	IE 2	0.88	8.00	7.60	7.40	P112M□	**HMM2A□400P2S1□**	27.5
5.50	**2915**	18.0	87.0 %	IE 2	0.88	10.9	10.4	10.0	P132S1□	**HMM2A□550P2S1□**	41.5
7.50	**2915**	24.6	88.1 %	IE 2	0.88	14.7	14.0	13.5	P132S2□	**HMM2A□750P2S1□**	47.0
11.0	**2930**	35.9	89.4 %	IE 2	0.89	21.0	20.0	19.2	P160M1□	**HMM2A□111P2S1□**	72.0
15.0	**2940**	48.8	90.3 %	IE 2	0.89	28.4	26.9	26.0	P160M2□	**HMM2A□151P2S1□**	83.0
18.5	**2940**	60.1	90.9 %	IE 2	0.90	34.4	32.6	31.5	P160L□	**HMM2A□185P2S1□**	90.0
22.0	**2945**	71.4	91.3 %	IE 2	0.90	40.7	38.6	37.2	P180M□	**HMM2Y□221P2S1□**	182
30.0	**2950**	97.2	92.0 %	IE 2	0.90	55.1	52.3	50.4	P200L1□	**HMM2Y□301P2S1□**	237
37.0	**2955**	120	92.5 %	IE 2	0.90	67.5	64.2	61.8	P200L2□	**HMM2Y□371P2S1□**	255
45.0	**2975**	144	92.9 %	IE 2	0.90	81.8	77.7	74.9	P225M□	**HMM2Y□451P2S1□**	314
55.0	**2975**	177	93.2 %	IE 2	0.90	99.6	94.6	91.2	P250M□	**HMM2Y□551P2S1□**	413
75.0	**2985**	240	93.8 %	IE 2	0.90	135	128	124	P280S□	**HMM2Y□751P2S1□**	550
90.0	**2972**	289	94.1 %	IE 2	0.91	160	152	146	P280M□	**HMM2Y□901P2S1□**	605
110	**2982**	352	94.3 %	IE 2	0.91	195	185	178	P315S□	**HMM2Y□112P2S1□**	946
132	**2982**	423	94.6 %	IE 2	0.91	233	221	213	P315M□	**HMM2Y□132P2S1□**	1056
160	**2979**	513	94.8 %	IE 2	0.92	279	265	255	P315L1□	**HMM2Y□162P2S1□**	1122
200	**2979**	641	95.0 %	IE 2	0.92	348	330	318	P315L2□	**HMM2Y□202P2S1□**	1188
250	**2979**	800	95.0 %	IE 2	0.92	435	413	398	P355M□	**HMM2Y□252P2S1□**	1870
315	**2979**	1010	95.0 %	IE 2	0.92	548	520	501	P355L□	**HMM2Y□315P2S1□**	2035

2-pole, 2800 rpm, 50Hz, class F, IP55, S3-70% — **IE 1**

Moc *Power* [kW]	Prędkość *Speed* [rpm]	Moment *Torque* [Nm]	Klasa sprawności *Efficiency class*		Wsp. mocy *Power factor* [cos ϕ]	Prąd znamionowy [A] *Rated current [A]* 380 V	400 V	415 V	Obudowa *Frame*	Oznaczenie kodowe *Order classification*	Masa *Weight* [kg]
0.75	**2830**	2.53	72.1 %	IE 1	0.83	1.90	1.80	1.70	P80□	**HMM1A□075P2S3□**	8.70
1.10	**2830**	3.71	75.0 %	IE 1	0.84	2.70	2.50	2.40	P80□	**HMM1A□110P2S3□**	9.50
1.50	**2840**	5.05	77.2 %	IE 1	0.84	3.50	3.30	3.20	P90□	**HMM1A□150P2S3□**	11.8
2.20	**2840**	7.40	79.7 %	IE 1	0.85	4.90	4.70	4.50	P90L□	**HMM1A□220P2S3□**	13.5
3.00	**2860**	10.0	81.5 %	IE 1	0.87	6.40	6.10	5.90	P100L□	**HMM1A□300P2S3□**	21.0
4.00	**2880**	13.3	83.1 %	IE 1	0.88	8.30	7.90	7.60	P112M□	**HMM1A□400P2S3□**	28.0
5.50	**2900**	18.1	84.7 %	IE 1	0.88	11.2	10.7	10.3	P132S1□	**HMM1A□550P2S3□**	39.0
7.50	**2900**	24.7	86.0 %	IE 1	0.88	15.1	14.3	13.8	P132S2□	**HMM1A□750P2S3□**	44.5
11.0	**2930**	35.9	87.6 %	IE 1	0.89	21.4	20.4	19.6	P160M1□	**HMM1A□111P2S3□**	69.5
15.0	**2930**	48.9	88.7 %	IE 1	0.89	28.9	27.4	26.4	P160M2□	**HMM1A□151P2S3□**	78.0

Dane techniczne — *Technical data*

4-pole, 1400 rpm, 50Hz, class F, IP55, S1 — IE 1

Moc *Power* [kW]	Prędkość *Speed* [rpm]	Moment *Torque* [Nm]	Klasa sprawności *Efficiency class*		Wsp. mocy *Power factor* [cos ϕ]	Prąd znamionowy [A] *Rated current [A]* 380 V	400 V	415 V	Obudowa *Frame*	Oznaczenie kodowe *Order classification*	Masa *Weight* [kg]
0.09	**1325**	0.65	50.0 %	IE 1	0.61	0.45	0.43	0.41	P56□	**HMM1A□009P4S1□**	3.90
0.12	**1320**	0.87	53.6 %	IE 1	0.72	0.47	0.45	0.43	P63□	**HMM1A□012P4S1□**	4.80
0.18	**1320**	1.30	58.3 %	IE 1	0.73	0.64	0.61	0.59	P63□	**HMM1A□018P4S1□**	5.10
0.25	**1347**	1.77	61.9 %	IE 1	0.74	0.83	0.79	0.76	P71□	**HMM1A□025P4S1□**	6.00
0.37	**1340**	2.64	65.8 %	IE 1	0.75	1.14	1.08	1.04	P71□	**HMM1A□037P4S1□**	6.30
0.55	**1390**	3.78	69.4 %	IE 1	0.75	1.61	1.53	1.47	P80□	**HMM1A□055P4S1□**	9.40

4-pole, 1400 rpm, 50Hz, class F, IP55, S1 — IE 2

Moc *Power* [kW]	Prędkość *Speed* [rpm]	Moment *Torque* [Nm]	Klasa sprawności *Efficiency class*		Wsp. mocy *Power factor* [cos ϕ]	Prąd znamionowy [A] *Rated current [A]* 380 V	400 V	415 V	Obudowa *Frame*	Oznaczenie kodowe *Order classification*	Masa *Weight* [kg]
0.75	**1428**	5.00	79.6 %	IE 2	0.76	1.90	1.80	1.70	P80□	**HMM2A□075P4S1□**	10.5
1.10	**1431**	7.34	81.4 %	IE 2	0.77	2.70	2.50	2.40	P90S□	**HMM2A□110P4S1□**	15.0
1.50	**1438**	9.97	82.8 %	IE 2	0.79	3.50	3.30	3.20	P90L□	**HMM2A□150P4S1□**	17.5
2.20	**1441**	14.6	84.3 %	IE 2	0.81	4.90	4.70	4.50	P100L1□	**HMM2A□220P4S1□**	24.0
3.00	**1429**	20.1	85.5 %	IE 2	0.82	6.50	6.20	6.00	P100L2□	**HMM2A□300P4S1□**	25.0
4.00	**1444**	26.5	86.6 %	IE 2	0.82	8.60	8.10	7.80	P112M□	**HMM2A□400P4S1□**	32.0
5.50	**1456**	36.1	87.7 %	IE 2	0.83	11.5	10.9	10.5	P132S1□	**HMM2A□550P4S1□**	46.0
7.50	**1455**	49.3	88.7 %	IE 2	0.84	15.3	14.5	14.0	P132M□	**HMM2A□750P4S1□**	54.0
11.0	**1470**	71.5	89.8 %	IE 2	0.84	22.2	21.0	20.3	P160M□	**HMM2A□111P4S1□**	77.0
15.0	**1470**	97.5	90.6 %	IE 2	0.85	29.6	28.1	27.1	P160L□	**HMM2A□151P4S1□**	90.0
18.5	**1475**	120	91.2 %	IE 2	0.86	35.8	34.0	32.8	P180M□	**HMM2Y□185P4S1□**	178
22.0	**1475**	142	91.6 %	IE 2	0.86	42.4	40.3	38.9	P180L□	**HMM2Y□221P4S1□**	193
30.0	**1480**	194	92.3 %	IE 2	0.87	57.4	54.6	52.6	P200L□	**HMM2Y□301P4S1□**	250
37.0	**1485**	238	92.7 %	IE 2	0.87	69.7	66.2	63.8	P225S□	**HMM2Y□371P4S1□**	310
45.0	**1485**	289	93.1 %	IE 2	0.87	84.4	80.2	77.3	P225M□	**HMM2Y□451P4S1□**	347
55.0	**1480**	355	93.5 %	IE 2	0.87	103	97.6	94.1	P250M□	**HMM2Y□551P4S1□**	429
75.0	**1485**	482	94.0 %	IE 2	0.87	139	132	128	P280S□	**HMM2Y□751P4S1□**	578
90.0	**1489**	577	94.2 %	IE 2	0.87	167	159	153	P280M□	**HMM2Y□901P4S1□**	649
110	**1492**	704	94.5 %	IE 2	0.88	201	191	184	P315S□	**HMM2Y□112P4S1□**	990
132	**1486**	849	94.7 %	IE 2	0.88	241	229	220	P315M□	**HMM2Y□132P4S1□**	1100
160	**1486**	1029	94.9 %	IE 2	0.89	288	273	264	P315L1□	**HMM2Y□162P4S1□**	1177
200	**1487**	1285	95.1 %	IE 2	0.89	359	341	329	P315L2□	**HMM2Y□202P4S1□**	1254
250	**1485**	1608	95.1 %	IE 2	0.90	444	422	406	P355M□	**HMM2Y□252P4S1□**	1936
315	**1490**	2020	95.1 %	IE 2	0.90	559	531	512	P355L□	**HMM2Y□315P4S1□**	2112

4-pole, 1400 rpm, 50Hz, class F, IP55, S3-70% — IE 1

Moc *Power* [kW]	Prędkość *Speed* [rpm]	Moment *Torque* [Nm]	Klasa sprawności *Efficiency class*		Wsp. mocy *Power factor* [cos ϕ]	Prąd znamionowy [A] *Rated current [A]* 380 V	400 V	415 V	Obudowa *Frame*	Oznaczenie kodowe *Order classification*	Masa *Weight* [kg]
0.75	**1390**	5.16	72.1 %	IE 1	0.76	2.10	2.00	1.90	P80□	**HMM1A□075P4S3□**	10.0
1.10	**1390**	7.56	75.0 %	IE 1	0.77	2.90	2.90	2.60	P90S□	**HMM1A□110P4S3□**	12.0
1.50	**1390**	10.3	77.2 %	IE 1	0.79	3.70	3.70	3.40	P90L□	**HMM1A□150P4S3□**	14.0
2.20	**1410**	14.9	79.7 %	IE 1	0.81	5.20	5.20	4.70	P100L1□	**HMM1A□220P4S3□**	21.0
3.00	**1410**	20.3	81.5 %	IE 1	0.82	6.80	6.80	6.20	P100L2□	**HMM1A□300P4S3□**	23.5
4.00	**1435**	26.6	83.1 %	IE 1	0.82	8.90	8.90	8.20	P112M□	**HMM1A□400P4S3□**	29.5
5.50	**1440**	36.5	84.7 %	IE 1	0.83	11.9	11.9	10.9	P132S□	**HMM1A□550P4S3□**	41.0
7.50	**1440**	49.8	86.0 %	IE 1	0.84	15.8	15.8	14.4	P132M□	**HMM1A□750P4S3□**	47.5
11.0	**1460**	72.0	87.6 %	IE 1	0.84	22.7	22.7	20.8	P160M□	**HMM1A□111P4S3□**	72.5
15.0	**1460**	98.1	88.7 %	IE 1	0.85	30.2	30.2	27.7	P160L□	**HMM1A□151P4S3□**	85.5

Dane techniczne

Technical data

6-pole, 900 rpm, 50Hz, class F, IP55, S1 — **IE 1**

Moc *Power* [kW]	Prędkość *Speed* [rpm]	Moment *Torque* [Nm]	Klasa sprawności *Efficiency class*		Wsp. mocy *Power factor* [cos ϕ]	Prąd znamionowy [A] *Rated current [A]* 380 V	400 V	415 V	Obudowa *Frame*	Oznaczenie kodowe *Order classification*	Masa *Weight* [kg]
0.18	865	1.99	57.3 %	IE 1	0.66	0.72	0.69	0.66	P71□	HMM1A□018P6S1□	6.00
0.25	863	2.77	60.5 %	IE 1	0.68	0.92	0.88	0.85	P71□	HMM1A□025P6S1□	6.30
0.37	890	3.97	64.1 %	IE 1	0.70	1.25	1.19	1.15	P80□	HMM1A□037P6S1□	8.90
0.55	890	5.90	67.5 %	IE 1	0.72	1.72	1.63	1.57	P80□	HMM1A□055P6S1□	10.4

6-pole, 900 rpm, 50Hz, class F, IP55, S1 — **IE 2**

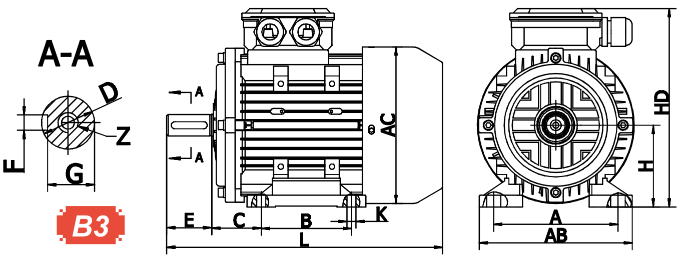
Moc *Power* [kW]	Prędkość *Speed* [rpm]	Moment *Torque* [Nm]	Klasa sprawności *Efficiency class*		Wsp. mocy *Power factor* [cos ϕ]	Prąd znamionowy [A] *Rated current [A]* 380 V	400 V	415 V	Obudowa *Frame*	Oznaczenie kodowe *Order classification*	Masa *Weight* [kg]
0.75	944	7.59	75.9 %	IE 2	0.72	2.10	2.00	1.90	P90S□	HMM2A□075P6S1□	13.5
1.10	928	11.3	78.1 %	IE 2	0.73	2.90	2.80	2.70	P90L□	HMM2A□110P6S1□	18.0
1.50	939	15.3	79.8 %	IE 2	0.75	3.80	3.60	3.50	P100L□	HMM2A□150P6S1□	22.5
2.20	936	22.5	81.8 %	IE 2	0.76	5.40	5.10	4.90	P112M□	HMM2A□220P6S1□	27.0
3.00	960	29.9	83.3 %	IE 2	0.76	7.20	6.80	6.06	P132S□	HMM2A□300P6S1□	38.5
4.00	957	39.9	84.6 %	IE 2	0.76	9.50	9.00	8.70	P132M1□	HMM2A□400P6S1□	44.5
5.50	962	54.6	86.0 %	IE 2	0.77	12.6	12.0	11.6	P132M2□	HMM2A□550P6S1□	52.5
7.50	975	73.5	87.2 %	IE 2	0.77	17.0	16.1	15.5	P160M□	HMM2A□750P6S1□	77.0
11.0	975	108	88.7 %	IE 2	0.78	24.2	22.9	22.1	P160L□	HMM2A□111P6S1□	90.0
15.0	975	147	89.7 %	IE 2	0.81	31.4	29.8	28.7	P180L□	HMM2Y□151P6S1□	183
18.5	985	179	90.4 %	IE 2	0.81	38.4	36.5	35.1	P200L1□	HMM2Y□185P6S1□	226
22.0	980	214	90.9 %	IE 2	0.83	44.3	42.1	40.6	P200L2□	HMM2Y□221P6S1□	242
30.0	985	291	91.7 %	IE 2	0.84	59.2	56.2	54.2	P225M□	HMM2Y□301P6S1□	319
37.0	985	359	92.2 %	IE 2	0.86	70.9	67.4	64.9	P250M□	HMM2Y□371P6S1□	407
45.0	990	434	92.7 %	IE 2	0.86	85.8	81.5	78.5	P280S□	HMM2Y□451P6S1□	539
55.0	994	529	93.1 %	IE 2	0.86	104	99.2	95.6	P280M□	HMM2Y□551P6S1□	594
75.0	992	722	93.7 %	IE 2	0.86	141	134	130	P315S□	HMM2Y□751P6S1□	935
90.0	991	868	94.0 %	IE 2	0.86	169	161	155	P315M□	HMM2Y□901P6S1□	1056
110	991	1060	94.3 %	IE 2	0.86	206	196	189	P315L1□	HMM2Y□112P6S1□	1166
132	990	1274	94.6 %	IE 2	0.87	244	232	223	P315L2□	HMM2Y□132P6S1□	1232
160	990	1544	94.8 %	IE 2	0.88	291	277	267	P355M1□	HMM2Y□162P6S1□	1848
200	991	1928	95.0 %	IE 2	0.88	364	345	333	P355M3□	HMM2Y□202P6S1□	1958
250	992	2408	95.0 %	IE 2	0.88	454	432	416	P355L2□	HMM2Y□252P6S1□	2145

6-pole, 900 rpm, 50Hz, class F, IP55, S3-70% — **IE 1**

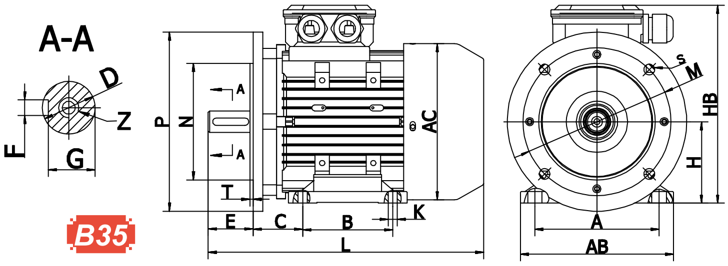
Moc *Power* [kW]	Prędkość *Speed* [rpm]	Moment *Torque* [Nm]	Klasa sprawności *Efficiency class*		Wsp. mocy *Power factor* [cos ϕ]	Prąd znamionowy [A] *Rated current [A]* 380 V	400 V	415 V	Obudowa *Frame*	Oznaczenie kodowe *Order classification*	Masa *Weight* [kg]
0.75	910	7.87	70.0 %	IE 1	0.72	2.26	2.15	2.07	P90S□	HMM1A□075P6S3□	12.1
1.10	910	11.5	72.9 %	IE 1	0.73	3.14	2.98	2.88	P90L□	HMM1A□110P6S3□	13.7
1.50	920	15.6	75.2 %	IE 1	0.75	4.04	3.84	3.70	P100L□	HMM1A□150P6S3□	23.0
2.20	935	22.5	77.7 %	IE 1	0.76	5.66	5.38	5.18	P112M□	HMM1A□220P6S3□	28.2
3.00	960	29.9	79.7 %	IE 1	0.76	7.53	7.15	6.89	P132S□	HMM1A□300P6S3□	40.3
4.00	960	39.8	81.4 %	IE 1	0.76	9.82	9.33	9.00	P132M1□	HMM1A□400P6S3□	43.0
5.50	960	54.7	83.1 %	IE 1	0.77	13.1	12.4	12.0	P132M2□	HMM1A□550P6S3□	47.2
7.50	970	73.9	84.7 %	IE 1	0.77	17.5	16.6	16.0	P160M□	HMM1A□750P6S3□	70.6
11.0	970	108	86.4 %	IE 1	0.78	24.8	23.6	22.7	P160L□	HMM1A□111P6S3□	85.0

Wymiary silnika *Dimensions*

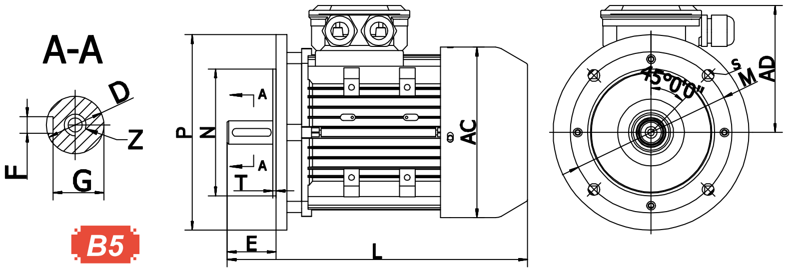
HMM1A□ / HMM2A□



B3

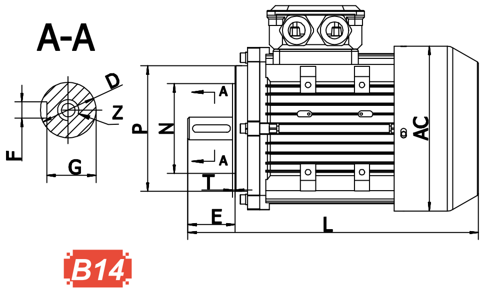


B35

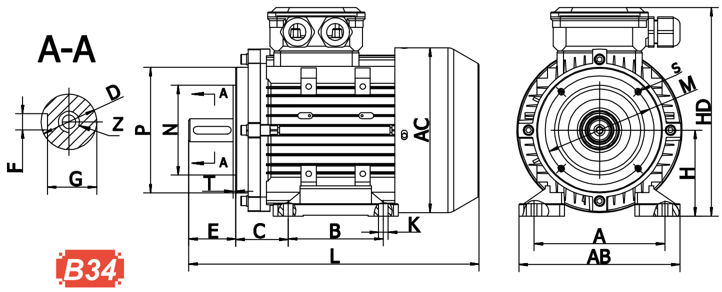


B5

Typ *Type*		Obudowa *Frame*	Wymiary montażowe / *Mounting dimensions*															Wymiary zewnętrzne *Overall dimensions*				
													kołnierz / *flange* B5									
			A	B	C	D	E	F	G	H	K	Z	P	M	N	S	T	AB	AC	AD	HD	L
HMM1		56	90	71	36	9	20	3	7.2	56	5.8	M4×12	120	100	80	7	3	110	111	89	145	197
HMM1		63	100	80	40	11	23	4	8.5	63	7	M4×12	140	115	95	10	3	120	120	107	170	212
HMM1		71	112	90	45	14	30	5	11	71	7	M5×12	160	130	110	10	3.5	132	133	114	185	240
HMM1	HMM2	80	125	100	50	19	40	6	15.5	80	10	M6×16	200	165	130	12	3.5	152	153	122	202	290
HMM1	HMM2	90S	140	100	56	24	50	8	20	90	10	M8×19	200	165	130	12	3.5	168	172	135	225	315
HMM1	HMM2	90L	140	125	56	24	50	8	20	90	10	M8×19	200	165	130	12	3.5	168	172	135	225	340
HMM1	HMM2	100L	160	140	63	28	60	8	24	100	12	M10×22	250	215	180	15	4	192	193	145	245	370
HMM1	HMM2	112M	190	140	70	28	60	8	24	112	12	M10×22	250	215	180	15	4	222	223	165	277	395
HMM1	HMM2	132S	216	140	89	38	80	10	33	132	12	M12×28	300	265	230	15	4	248	255	187	319	470
HMM1	HMM2	132M	216	178	89	38	80	10	33	132	12	M12×28	300	265	230	15	4	248	255	187	319	500
HMM1	HMM2	160M	254	210	108	42	110	12	37	160	15	M16×36	350	300	250	19	5	315	330	255	415	605
HMM1	HMM2	160L	254	254	108	42	110	12	37	160	15	M16×36	350	300	250	19	5	315	330	255	415	680



B14

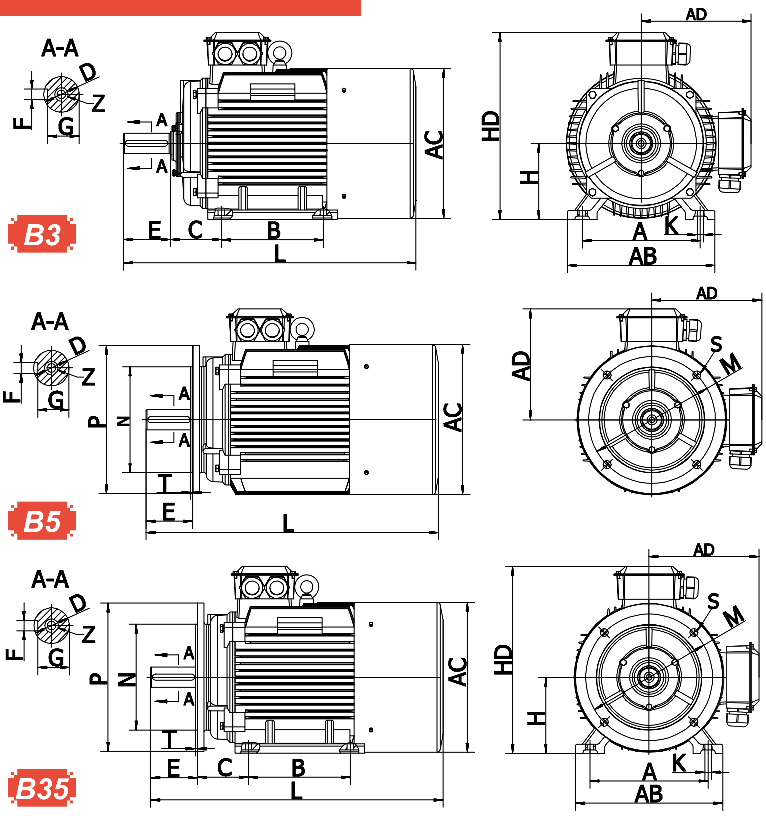


B34

Typ *Type*		Obudowa *Frame*	Wymiary montażowe / *Mounting dimensions*																				Wymiary zewnętrzne *Overall dimensions*				
													B14-A					B14-B									
			A	B	C	D	E	F	G	H	K	Z	P	M	N	S	T	P	M	N	S	T	AB	AC	AD	HD	L
HMM1		56	90	71	36	9	20	3	7.2	56	5.8	M4×12	80	65	50	4-M5	2.5	105	85	70	M6	2.5	110	111	89	145	197
HMM1		63	100	80	40	11	23	4	8.5	63	7	M4×12	90	75	60	4-M5	2.5	120	100	80	M6	3	120	120	107	170	212
HMM1		71	112	90	45	14	30	5	11	71	7	M5×12	105	85	70	4-M6	2.5	140	115	95	M8	3	132	133	114	185	240
HMM1	HMM2	80	125	100	50	19	40	6	15.5	80	10	M6×16	120	100	80	4-M6	3	160	130	110	M8	3.5	152	153	122	202	290
HMM1	HMM2	90S	140	100	56	24	50	8	20	90	10	M8×19	140	115	95	4-M8	3	160	130	110	M8	3.5	168	172	135	225	315
HMM1	HMM2	90L	140	125	56	24	50	8	20	90	10	M8×19	140	115	95	4-M8	3	160	130	110	M8	3.5	168	172	135	225	340
HMM1	HMM2	100L	160	140	63	28	60	8	24	100	12	M10×22	160	130	110	4-M8	3.5	200	165	130	M10	3.5	192	193	145	245	370
HMM1	HMM2	112M	190	140	70	28	60	8	24	112	12	M10×22	160	130	110	4-M8	3.5	200	165	130	M10	3.5	222	223	165	277	395
HMM1	HMM2	132S	216	140	89	38	80	10	33	132	12	M12×28	200	165	130	4-M10	3.5	250	215	180	M12	4	248	255	187	319	470
HMM1	HMM2	132M	216	178	89	38	80	10	33	132	12	M12×28	200	165	130	4-M10	3.5	250	215	180	M12	4	248	255	187	319	500
HMM1	HMM2	160M	254	210	108	42	110	12	37	160	15	M16×36	250	215	180	4-M12	4	300	265	230	M12	4	315	330	255	415	605
HMM1	HMM2	160L	254	254	108	42	110	12	37	160	15	M16×36	250	215	180	4-M12	4	300	265	230	M12	4	315	330	255	415	680

Wymiary silnika *Dimensions*

HMM1Y□ / HMM2Y□



Typ *Type*	Obudowa *Frame*	Wymiary montażowe / *Mounting dimensions*															Wymiary zewnętrzne *Overall dimensions*				
												kołnierz / *flange* B5									
		A	B	C	D	E	F	G	H	K	Z	P	M	N	S	T	AB	AC	AD	HD	L
HMM1 HMM2	80M	125	100	50	19	40	6	15.5	80	10	M6×16	200	165	130	4-Φ12	3.5	152	153	122	202	290
HMM1 HMM2	90S	140	100	56	24	50	8	20	90	10	M8×19	200	165	130	4-Φ12	3.5	168	172	135	225	315
HMM1 HMM2	90L	140	125	56	24	50	8	20	90	10	M8×19	200	165	130	4-Φ12	3.5	168	172	135	225	340
HMM1 HMM2	100L	160	140	63	28	60	8	24	100	12	M10×22	250	215	180	4-Φ15	4	192	193	145	245	370
HMM1 HMM2	112M	190	140	70	28	60	8	24	112	12	M10×22	250	215	180	4-Φ15	4	222	223	165	277	395
HMM1 HMM2	132S	216	140	89	38	80	10	33	132	12	M12×28	300	265	230	4-Φ15	4	248	265	208	340	470
HMM1 HMM2	132M	216	178	89	38	80	10	33	132	12	M12×28	300	265	230	4-Φ15	4	248	265	208	340	500
HMM1 HMM2	160M	254	210	108	42	110	12	37	160	15	M16×36	350	300	250	4-Φ19	5	315	330	260	420	605
HMM1 HMM2	160L	254	254	108	42	110	12	37	160	15	M16×36	350	300	250	4-Φ19	5	315	330	260	420	680
HMM1 HMM2	180M	279	241	121	48	110	14	42.5	180	15	M16×36	350	300	250	4-Φ19	5	350	352	265	445	694
HMM1 HMM2	180L	279	279	121	48	110	14	42.5	180	15	M16×36	350	300	250	4-Φ19	5	350	352	265	445	732
HMM1 HMM2	200L	318	305	133	55	110	16	49	200	19	M20×42	400	350	300	4-Φ19	5	390	394	315	515	774
HMM1 HMM2	225S(4-8P)	356	286	149	60	140	18	53	225	19	M20×42	450	400	350	8-Φ19	5	435	442	335	560	820
HMM1 HMM2	225M(2P)	356	311	149	55	110	16	49	225	19	M20×42	450	400	350	8-Φ19	5	435	442	335	560	813
HMM1 HMM2	225M(4-8P)	356	311	149	60	140	18	53	225	19	M20×42	450	400	350	8-Φ19	5	435	442	335	560	873
HMM1 HMM2	250M(2P)	406	349	168	60	140	18	53	250	24	M20×42	550	500	450	8-Φ19	5	490	481	375	625	922
HMM1 HMM2	250M(4-8P)	406	349	168	65	140	18	58	250	24	M20×42	550	500	450	8-Φ19	5	490	481	375	625	922
HMM1 HMM2	280S(2P)	457	368	190	65	140	18	58	280	24	M20×42	550	500	450	8-Φ19	5	547	550	400	680	991
HMM1 HMM2	280M(2P)	457	419	190	65	140	18	58	280	24	M20×42	550	500	450	8-Φ19	5	547	550	400	680	1040
HMM1 HMM2	280S(4-8P)	457	368	190	75	140	20	67.5	280	24	M20×42	550	500	450	8-Φ19	5	547	550	400	680	991
HMM1 HMM2	280M(4-8P)	457	419	190	75	140	20	67.5	280	24	M20×42	550	500	450	8-Φ19	5	547	550	400	680	1040
HMM1 HMM2	315S(2P)	508	406	216	65	140	18	58	315	28	M20×42	660	600	550	8-Φ24	6	630	600	540	855	1160
HMM1 HMM2	315M(2P)	508	457	216	65	140	18	58	315	28	M20×42	660	600	550	8-Φ24	6	630	600	540	855	1270
HMM1 HMM2	315L(2P)	508	508	216	65	140	18	58	315	28	M20×42	660	600	550	8-Φ24	6	630	600	540	855	1270
HMM1 HMM2	315S(4-10P)	508	406	216	80	170	22	71	315	28	M20×42	660	600	550	8-Φ24	6	630	600	540	855	1190
HMM1 HMM2	315M(4-10P)	508	457	216	80	170	22	71	315	28	M20×42	660	600	550	8-Φ24	6	630	600	540	855	1300
HMM1 HMM2	315L(4-10P)	508	508	216	80	170	22	71	315	28	M20×42	660	600	550	8-Φ24	6	630	600	540	855	1300
HMM1 HMM2	355M(2P)	610	560	254	75	140	20	67.5	355	28	M20×42	800	740	680	8-Φ24	6	730	710	655	1010	1500
HMM1 HMM2	355L(2P)	610	630	254	75	140	20	67.5	355	28	M20×42	800	740	680	8-Φ24	6	730	710	655	1010	1500
HMM1 HMM2	355M(4-10P)	610	560	254	95	170	25	86	355	28	M20×42	800	740	680	8-Φ24	6	730	710	655	1010	1530
HMM1 HMM2	355L(4-10P)	610	630	254	95	170	25	86	355	28	M20×42	800	740	680	8-Φ24	6	730	710	655	1010	1530

Dane techniczne

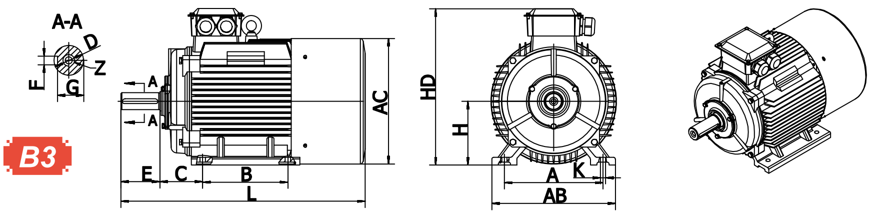
Technical data

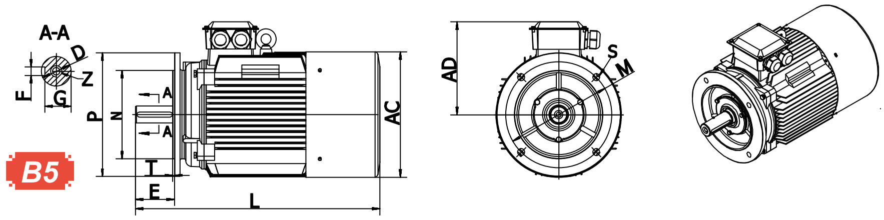
2-pole, 2800 rpm, 50Hz, class F, IP55, S1											IE 3
Moc *Power* [kW]	Prędkość *Speed* [rpm]	Moment *Torque* [Nm]	Klasa sprawności *Efficiency class*		Wsp. mocy *Power factor* [cos ϕ]	Prąd znamionowy [A] *Rated current [A]*			Obudowa *Frame*	Oznaczenie kodowe *Order classification*	Masa *Weight* [kg]
						380 V	400 V	415 V			
0.75	**2880**	2.49	80.7 %	IE 3	0.82	1.70	1.60	1.60	P80□	**HMM3A□075P2S1□**	11.0
1.10	**2880**	3.64	82.7 %	IE 3	0.83	2.40	2.30	2.20	P80□	**HMM3A□110P2S1□**	12.0
1.50	**2895**	4.96	84.2 %	IE 3	0.84	3.20	3.10	3.00	P90S□	**HMM3A□150P2S1□**	15.0
2.20	**2895**	7.28	85.9 %	IE 3	0.85	4.60	4.30	4.20	P90L□	**HMM3A□220P2S1□**	16.0
3.00	**2895**	9.92	87.1 %	IE 3	0.87	6.00	5.70	5.50	P100L□	**HMM3A□300P2S1□**	25.0
4.00	**2905**	13.2	88.1 %	IE 3	0.88	7.80	7.40	7.20	P112M□	**HMM3A□400P2S1□**	33.0
5.50	**2930**	18.0	89.2 %	IE 3	0.88	10.6	10.1	9.70	P132S1□	**HMM3A□550P2S1□**	47.0
7.50	**2930**	24.6	90.1 %	IE 3	0.88	14.4	13.7	13.2	P132S2□	**HMM3A□750P2S1□**	53.0
11.0	**2945**	35.9	91.2 %	IE 3	0.89	20.6	19.6	18.9	P160M1□	**HMM3Y□111P2S1□**	124
15.0	**2945**	48.8	91.9 %	IE 3	0.89	27.9	26.5	25.5	P160M2□	**HMM3Y□151P2S1□**	134
18.5	**2955**	60.1	92.4 %	IE 3	0.89	34.2	32.5	31.3	P160L□	**HMM3Y□185P2S1□**	162
22.0	**2955**	71.4	92.7 %	IE 3	0.89	40.5	38.5	37.1	P180M□	**HMM3Y□221P2S1□**	198
30.0	**2960**	97.2	93.3 %	IE 3	0.89	54.9	52.1	50.3	P200L1□	**HMM3Y□301P2S1□**	258
37.0	**2960**	120	93.7 %	IE 3	0.89	67.4	64.0	61.7	P200L2□	**HMM3Y□371P2S1□**	278
45.0	**2965**	144	94.0 %	IE 3	0.90	80.8	76.8	74.0	P225M□	**HMM3Y□451P2S1□**	342
55.0	**2970**	177	94.3 %	IE 3	0.90	98.5	93.5	90.2	P250M□	**HMM3Y□551P2S1□**	450
75.0	**2975**	240	94.7 %	IE 3	0.90	134	127	123	P280S□	**HMM3Y□751P2S1□**	600
90.0	**2975**	289	95.0 %	IE 3	0.90	160	152	146	P280M□	**HMM3Y□901P2S1□**	660
110	**2978**	352	95.2 %	IE 3	0.90	195	185	179	P315S□	**HMM3Y□112P2S1□**	1032
132	**2978**	423	95.4 %	IE 3	0.90	234	222	214	P315M□	**HMM3Y□132P2S1□**	1152
160	**2980**	513	95.6 %	IE 3	0.91	279	266	256	P315L1□	**HMM3Y□162P2S1□**	1224
200	**2980**	641	95.8 %	IE 3	0.91	349	331	319	P315L2□	**HMM3Y□202P2S1□**	1296
250	**2982**	800	96.0 %	IE 3	0.91	435	414	398	P355M□	**HMM3Y□252P2S1□**	2040
315	**2982**	1010	96.2 %	IE 3	0.91	547	519	501	P355L□	**HMM3Y□315P2S1□**	2220

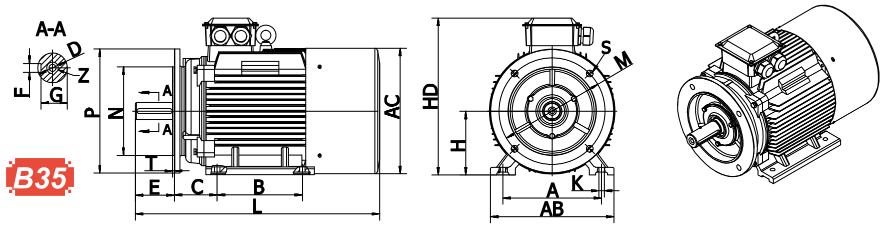
4-pole, 1400 rpm, 50Hz, class F, IP55, S1											IE 3
Moc *Power* [kW]	Prędkość *Speed* [rpm]	Moment *Torque* [Nm]	Klasa sprawności *Efficiency class*		Wsp. mocy *Power factor* [cos ϕ]	Prąd znamionowy [A] *Rated current [A]*			Obudowa *Frame*	Oznaczenie kodowe *Order classification*	Masa *Weight* [kg]
						380 V	400 V	415 V			
0.75	**1420**	5.00	82.5 %	IE 3	0.75	1.80	1.70	1.70	P80□	**HMM3A□075P4S1□**	12.0
1.10	**1445**	7.34	84.1 %	IE 3	0.76	2.60	2.50	2.40	P90S□	**HMM3A□110P4S1□**	14.0
1.50	**1445**	9.97	85.3 %	IE 3	0.77	3.50	3.30	3.20	P90L□	**HMM3A□150P4S1□**	17.0
2.20	**1435**	14.6	86.7 %	IE 3	0.81	4.80	4.50	4.40	P100L1□	**HMM3A□220P4S1□**	25.0
3.00	**1435**	20.1	87.7 %	IE 3	0.82	6.30	6.00	5.80	P100L2□	**HMM3A□300P4S1□**	28.0
4.00	**1440**	26.5	88.6 %	IE 3	0.82	8.40	7.90	7.70	P112M□	**HMM3A□400P4S1□**	35.0
5.50	**1460**	36.1	89.6 %	IE 3	0.83	11.2	10.7	10.3	P132S1□	**HMM3A□550P4S1□**	49.0
7.50	**1460**	49.3	90.4 %	IE 3	0.84	15.0	14.3	13.7	P132M□	**HMM3A□750P4S1□**	57.0
11.0	**1465**	71.5	91.4 %	IE 3	0.85	21.5	20.4	19.7	P160M□	**HMM3Y□111P4S1□**	128
15.0	**1465**	97.5	92.1 %	IE 3	0.86	28.8	27.3	26.3	P160L□	**HMM3Y□151P4S1□**	156
18.5	**1470**	120	92.6 %	IE 3	0.86	35.3	33.5	32.3	P180M□	**HMM3Y□185P4S1□**	194
22.0	**1470**	142	93.0 %	IE 3	0.86	41.8	39.7	38.3	P180L□	**HMM3Y□221P4S1□**	210
30.0	**1475**	194	93.6 %	IE 3	0.86	56.6	53.8	51.9	P200L□	**HMM3Y□301P4S1□**	272
37.0	**1485**	238	93.9 %	IE 3	0.86	69.6	66.1	63.7	P225S□	**HMM3Y□371P4S1□**	338
45.0	**1485**	289	94.2 %	IE 3	0.86	84.4	80.2	77.3	P225M□	**HMM3Y□451P4S1□**	378
55.0	**1485**	355	94.6 %	IE 3	0.86	103	97.6	94.1	P250M□	**HMM3Y□551P4S1□**	468
75.0	**1486**	482	95.0 %	IE 3	0.88	136	130	125	P280S□	**HMM3Y□751P4S1□**	630
90.0	**1486**	577	95.2 %	IE 3	0.88	163	155	150	P280M□	**HMM3Y□901P4S1□**	708
110	**1488**	704	95.4 %	IE 3	0.89	197	187	180	P315S□	**HMM3Y□112P4S1□**	1080
132	**1488**	849	95.6 %	IE 3	0.89	236	224	216	P315M□	**HMM3Y□132P4S1□**	1200
160	**1488**	1029	95.8 %	IE 3	0.89	285	271	261	P315L1□	**HMM3Y□162P4S1□**	1284
200	**1490**	1285	96.0 %	IE 3	0.90	352	334	322	P315L2□	**HMM3Y□202P4S1□**	1368
250	**1490**	1608	96.0 %	IE 3	0.90	440	418	403	P355M□	**HMM3Y□252P4S1□**	2112
315	**1490**	2020	96.0 %	IE 3	0.90	554	526	507	P355L□	**HMM3Y□315P4S1□**	2304

Wymiary silnika *Dimensions*

HMM3A□ / HMM3Y□







Typ *Type*	Obudowa *Frame*	Wymiary montażowe / *Mounting dimensions*															Wymiary zewnętrzne *Overall dimensions*				
												kołnierz / *flange* B5									
		A	B	C	D	E	F	G	H	K	Z	P	M	N	S	T	AB	AC	AD	HD	L
HMM3	80M	125	100	50	19	40	6	15.5	80	10	M6×16	200	165	130	4-Φ12	3.5	165	153	122	202	300
HMM3	90S	140	100	56	24	50	8	20	90	10	M8×19	200	165	130	4-Φ12	3.5	180	172	135	225	326
HMM3	90L	140	125	56	24	50	8	20	90	10	M8×19	200	165	130	4-Φ12	3.5	180	172	135	225	381
HMM3	100L	160	140	63	28	60	8	24	100	12	M10×22	250	215	180	4-Φ15	4	200	193	145	245	428
HMM3	112M	190	140	70	28	60	8	24	112	12	M10×22	250	215	180	4-Φ15	4	230	223	165	277	440
HMM3	132S	216	140	89	38	80	10	33	132	12	M12×28	300	265	230	4-Φ15	4	270	255	187	319	510
HMM3	132M	216	178	89	38	80	10	33	132	12	M12×28	300	265	230	4-Φ15	4	270	255	187	319	550
HMM3	160M	254	210	108	42	110	12	37	160	15	M16×36	350	300	250	4-Φ19	5	320	330	255	415	730
HMM3	160L	254	254	108	42	110	12	37	160	15	M16×36	350	300	250	4-Φ19	5	320	330	255	415	760
HMM3	180M	279	241	121	48	110	14	42.5	180	15	M16×36	350	300	250	4-Φ19	5	355	352	265	445	770
HMM3	180L	279	279	121	48	110	14	42.5	180	15	M16×36	350	300	250	4-Φ19	5	355	352	265	445	800
HMM3	200L	318	305	133	55	110	16	49	200	19	M20×42	400	350	300	4-Φ19	5	395	394	315	515	860
HMM3	225S(4-8P)	356	286	149	60	140	18	53	225	19	M20×42	450	400	350	8-Φ19	5	435	442	335	560	830
HMM3	225M(2P)	356	311	149	55	110	16	49	225	19	M20×42	450	400	350	8-Φ19	5	435	442	335	560	830
HMM3	225M(4-8P)	356	311	149	60	140	18	53	225	19	M20×42	450	400	350	8-Φ19	5	435	442	335	560	860
HMM3	250M(2P)	406	349	168	60	140	18	53	250	24	M20×42	550	500	450	8-Φ19	5	490	481	375	625	990
HMM3	250M(4-8P)	406	349	168	65	140	18	58	250	24	M20×42	550	500	450	8-Φ19	5	490	481	375	625	990
HMM3	280S(2P)	457	368	190	65	140	18	58	280	24	M20×42	550	500	450	8-Φ19	5	550	550	400	680	990
HMM3	280M(2P)	457	419	190	65	140	18	58	280	24	M20×42	550	500	450	8-Φ19	5	550	550	400	680	1040
HMM3	280S(4-8P)	457	368	190	75	140	20	67.5	280	24	M20×42	550	500	450	8-Φ19	5	550	550	400	680	990
HMM3	280M(4-8P)	457	419	190	75	140	20	67.5	280	24	M20×42	550	500	450	8-Φ19	5	550	550	400	680	1040
HMM3	315S(2P)	508	406	216	65	140	18	58	315	28	M20×42	660	600	550	8-Φ24	6	635	600	540	855	1180
HMM3	315M(2P)	508	457	216	65	140	18	58	315	28	M20×42	660	600	550	8-Φ24	6	635	600	540	855	1290
HMM3	315L(2P)	508	508	216	65	140	18	58	315	28	M20×42	660	600	550	8-Φ24	6	635	600	540	855	1290
HMM3	315S(4-10P)	508	406	216	80	170	22	71	315	28	M20×42	660	600	550	8-Φ24	6	635	600	540	855	1210
HMM3	315M(4-10P)	508	457	216	80	170	22	71	315	28	M20×42	660	600	550	8-Φ24	6	635	600	540	855	1320
HMM3	315L(4-10P)	508	508	216	80	170	22	71	315	28	M20×42	660	600	550	8-Φ24	6	635	600	540	855	1320
HMM3	355M(2P)	610	560	254	75	140	20	67.5	355	28	M20×42	800	740	680	8-Φ24	6	730	710	655	1010	1500
HMM3	355L(2P)	610	630	254	75	140	20	67.5	355	28	M20×42	800	740	680	8-Φ24	6	730	710	655	1010	1500
HMM3	355M(4-10P)	610	560	254	95	170	25	86	355	28	M20×42	800	740	680	8-Φ24	6	730	710	655	1010	1530
HMM3	355L(4-10P)	610	630	254	95	170	25	86	355	28	M20×42	800	740	680	8-Φ24	6	730	710	655	1010	1530

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